

**Listing of Claims:**

Claim 1-19 (cancelled)

Claim 20 (previously amended): A liquid crystal display comprising:

- 5        a lower substrate;  
              an upper substrate positioned parallel with the lower substrate; and  
              a plurality of pixel units, each of the pixel units including an upper transparent electrode, a liquid crystal layer, a lower transparent electrode, and a color filter formed on the upper substrate and above the lower substrate;  
10        wherein a surface of each color filter has a plurality of curved convex structures, and the upper transparent electrode directly contacts and covers the curved convex structures on the surface of each of the color filters.

Claim 21 (cancelled)

- 15        Claim 22 (previously amended): The liquid crystal display of claim 20 wherein the surface of each color filter which has the plurality of curved convex structures is able to scatter light.

- 20        Claim 23 (previously amended): The liquid crystal display of claim 20 wherein a distribution density of the curved convex structures is used to regulate brightness and a color deepness of the liquid crystal display.

- 25        Claim 24 (previously presented): The liquid crystal display of claim 20 wherein each of the pixel units respectively comprises a reflection layer positioned between the color filter and the lower substrate.

Claim 25 (previously presented): The liquid crystal display of claim 24 being a reflective

liquid crystal display.

Claim 26 (previously presented): The liquid crystal display of claim 24 wherein each of the reflection layers includes an opening.

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Claim 27 (previously presented): The liquid crystal display of claim 26 being a semi-transmissive and semi-reflective liquid crystal display.

10 Claim 28 (previously presented): The liquid crystal display of claim 20 further comprising a plurality of thin film transistors for respectively controlling each of the pixel units.

Claim 29 (previously amended): The liquid crystal display of claim 28 wherein the thin film transistors are formed on the lower substrate and below the upper substrate.

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Claim 30-39 (cancelled)

Claim 40 (previously presented): The liquid crystal display of claim 20 wherein each of the curved convex structures comprises a smooth surface.

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Claim 41 (previously presented): The liquid crystal display of claim 20 wherein each of the curved convex structures comprises a spherical surface.

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Claim 42 (previously presented): The liquid crystal display of claim 20 wherein each of the pixel units comprises three of the color filters having a plurality of the curved convex structure respectively.

Claim 43 (previously presented): The liquid crystal display of claim 20 wherein the

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curved convex structures have non-uniform sizes.

Claim 44-47 (cancelled)

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